# PARP2 Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | PARP2, Polyclonal Antibody |
| **Full Product Name** | PARP2 antibody |
| **Product Gene Name** | anti-PARP2 antibody |
| **Product Synonym Names** | Polyclonal PARP2; Anti-PARP2; PARP 2; PARP -2; PARP-2; PARP2; Poly (ADP-ribose) Polymerase 2 |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human |
| **Form/Format** | Supplied as serum containing 0.02% NaN3. |
| **Specificity** | Human |
| **Preparation and Storage** | Store at 4 degree C for short term storage. Aliquot and store at -20 degree C for long term storage. Avoid repeated freeze/thaw cycles. |
| **Molecular Weight** | 64,805 Da |
| **OMIM** | 607725 |
| **3D Structure** | ModBase 3D Structure for Q9UGN5 |
| **Biohazard Information** | This product contains sodium azide as preservative. Although the amount of sodium azide is very small appropriate care must be taken when handling this product. |
| **Immunogen** | PARP2 antibody was raised in rabbit using residues 43-59 [QRQESKKMPVAGGKANK] of the 62 kDa human PARP-2 protein as the immunogen. |
| **Product Categories/Family for anti-PARP2 antibody** | DNA & RNA |
| **Applications Tested/Suitable for anti-PARP2 antibody** | Western Blot (WB) |
| **Application Notes for anti-PARP2 antibody** | WB: 1:250-1:1,000 |
| **Related Product Information for anti-PARP2 antibody** | MBS534683 is an antibody targeting PARP2. Also known as PARP2 antibody. Reactive in Human. Host: Rabbit. Rabbit polyclonal PARP2 antibody |
| **Other Notes** | Small volumes of anti-PARP2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PARP2. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 110825961 |
| **NCBI GeneID** | 10038 |
| **NCBI Accession #** | NP_005475 |

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| **UniProt Primary Accession #** | Q9UGN5 |
| **UniProt Secondary Accession #** | Q8TEU4; Q9NUV2; Q9UMR4; Q9Y6C8 |
| **UniProt Related Accession #** | Q9UGN5 |
| **GenBank Nucleotide #** | NM_005484.3 |
| **NCBI Official Full Name** | poly |
| **NCBI Official Synonym Full Names** | poly (ADP-ribose) polymerase 2 |
| **NCBI Official Symbol** | PARP2 |
| **NCBI Official Synonym Symbols** | ARTD2; ADPRT2; PARP-2; ADPRTL2; ADPRTL3; pADPRT-2 |
| **UniProt Protein Name** | Poly [ADP-ribose] polymerase 2 |
| **UniProt Synonym Protein Names** | ADP-ribosyltransferase diphtheria toxin-like 2; ARTD2; NAD(+) ADP-ribosyltransferase 2; ADPRT-2; Poly[ADP-ribose] synthase 2; pADPRT-2 |
| **Protein Family** | Poly [ADP-ribose] polymerase |
| **UniProt Gene Name** | PARP2 |
| **UniProt Synonym Gene Names** | ADPRT2; ADPRTL2; PARP-2; hPARP-2; ARTD2; ADPRT-2; pADPRT-2 |
| **UniProt Entry Name** | PARP2_HUMAN |
| **NCBI Protein Information** | poly [ADP-ribose] polymerase 2 |
| **NCBI Summary for PARP2** | This gene encodes poly(ADP-ribosyl)transferase-like 2 protein, which contains a catalytic domain and is capable of catalyzing a poly(ADP-ribosyl)ation reaction. This protein has a catalytic domain which is homologous to that of poly (ADP-ribosyl) transferase, but lacks an N-terminal DNA binding domain which activates the C-terminal catalytic domain of poly (ADP-ribosyl) transferase. The basic residues within the N-terminal region of this protein may bear potential DNA-binding properties, and may be involved in the nuclear and/or nucleolar targeting of the protein. Two alternatively spliced transcript variants encoding distinct isoforms have been found. [provided by RefSeq, Jul 2008] |
| **UniProt Comments for PARP2** | PARP2: Involved in the base excision repair (BER) pathway, by catalyzing the poly(ADP-ribosyl)ation of a limited number of acceptor proteins involved in chromatin architecture and in DNA metabolism. This modification follows DNA damages and appears as an obligatory step in a detection/signaling pathway leading to the reparation of DNA strand breaks. 2 isoforms of the human protein are produced by alternative splicing.<br><br>Protein type: EC 2.4.2.30; Transferase; DNA repair, damage<br><br>Chromosomal Location of Human Ortholog: 14q11.2<br><br>Cellular Component: nucleoplasm; nucleolus; nucleus<br><br>Molecular Function: protein binding; DNA binding; NAD+ ADP-ribosyltransferase activity<br><br>Biological Process: protein amino acid ADP-ribosylation; base-excision repair; DNA repair |
| **Research Articles on PARP2** | **1.** Nuclear Smad function is negatively regulated by PARP-1 that is assisted by PARP-2 and positively regulated by PARG during the course of TGFB signaling. |
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